

1 / 14

1	1	ACA	GTC	AGC	CGC	ATG	GCT	CCC	CTG	TGC	CCC	AGC	CCC	TGG	CTC	CCT	CTG	12	48
13	49	L	I	P	A	P	A	P	G	L	T	V	Q	L	L	L	S	28	96
29	97	L	L	L	L	M	P	P	V	H	P	Q	R	L	P	R	Q	44	144
45	145	E	D	S	P	L	G	G	G	S	S	G	E	D	D	P	L	60	192
61	193	G	E	E	D	L	P	S	E	E	D	S	P	R	E	E	D	76	240
77	241	P	P	G	E	E	D	L	P	G	E	E	D	L	P	G	E	92	288
93	289	E	D	L	P	E	V	K	P	K	S	E	E	E	G	S	L	108	336
109	337	K	L	E	D	L	P	T	V	E	A	P	G	D	P	Q	E	124	384
125	385	P	Q	N	N	A	H	R	D	K	E	G	D	D	Q	S	H	140	432
141	433	W	R	Y	G	G	D	P	P	W	P	R	V	S	P	A	C	156	480
157	481	A	G	R	F	Q	S	P	V	D	I	R	P	Q	L	A	A	172	528

FIG.-1A

2 / 14

173	F	C	P	A	L	R	P	L	E	L	L	G	F	Q	L	P	188
529	TTC	TGC	CCG	GCC	CTG	CGC	CCC	CTG	GAA	CTC	CTG	GGC	TTC	CAG	CTC	CCG	576
189	P	L	P	E	L	R	L	R	N	N	G	H	S	V	Q	L	204
577	CCG	CTC	CCA	GAA	CTG	CGC	CTG	CGC	AAC	AAT	GGC	CAC	AGT	GTG	CAA	CTG	624
205	T	L	P	P	G	L	E	M	A	L	G	P	G	R	E	Y	220
625	ACC	CTG	CCT	CCT	GGG	CTA	GAG	ATG	GCT	CTG	GGT	CCC	GGG	CGG	GAG	TAC	672
221	R	A	L	Q	L	H	L	H	W	G	A	A	G	R	P	G	236
673	CGG	GCT	CTG	CAG	CTG	CAT	CTG	CAC	TGG	GGG	GCT	GCA	GGT	CGT	CCG	GGC	720
237	S	E	H	T	V	E	G	H	R	F	P	A	E	I	H	V	252
721	TCG	GAG	CAC	ACT	GTG	GAA	GGC	CAC	CGT	TTC	CCT	GCC	GAG	ATC	CAC	GTG	768
253	V	H	L	S	T	A	F	A	R	V	D	E	A	L	G	R	268
769	GTT	CAC	CTC	AGC	ACC	GCC	TTT	GCC	AGA	GTT	GAC	GAG	GCC	TTG	GGG	CGC	816
269	P	G	G	L	A	V	L	A	A	F	L	E	E	G	P	E	284
817	CCG	GGA	GGC	CTG	GCC	GTG	TTG	GCC	GCC	TTT	CTG	GAG	GAG	GGC	CCG	GAA	864
285	E	N	S	A	Y	E	Q	L	L	S	R	L	E	E	I	A	300
865	GAA	AAC	AGT	GCC	TAT	GAG	CAG	TTG	CTG	TCT	CGC	TTG	GAA	GAA	ATC	GCT	912
301	E	E	G	S	E	T	Q	V	P	G	L	D	I	S	A	L	316
913	GAG	GAA	GGC	TCA	GAG	ACT	CAG	GTC	CCA	GGA	CTG	GAC	ATA	TCT	GCA	CTC	960
317	L	P	S	D	F	S	R	Y	F	Q	Y	E	G	S	L	T	332
961	CTG	CCC	TCT	GAC	TTC	AGC	CGC	TAC	TTC	CAA	TAT	GAG	GGG	TCT	CTG	ACT	1008
333	T	P	P	C	A	Q	G	V	I	W	T	V	F	N	Q	T	348
1009	ACA	CCG	CCC	TGT	GCC	CAG	GGT	GTC	ATC	TGG	ACT	GTG	TTT	AAC	CAG	ACA	1056

FIG. 1B

3 / 14

```

349  V  M  L  S  A  K  Q  L  H  T  L  S  D  T  L  W  364
1057 GTG ATG CTG AGT GCT AAG CAG CAG CTC CAC ACC CTC TCT GAC ACC CTG TGG 1104

365  G  P  G  D  S  R  L  Q  L  N  F  R  A  T  Q  P  380
1105 GGA CCT GGT GAC TCT CGG CTA CAG CTG AAC TTC CGA GCG ACG CAG CCT 1152

381  L  N  G  R  V  I  E  A  S  F  P  A  G  V  D  S  396
1153 TTG AAT GGG CGA GTG ATT GAG GCC TCC TTC CCT GCT GGA GTG GAC AGC 1200

397  S  P  R  A  A  E  P  V  Q  L  N  S  C  L  A  A  412
1201 AGT CCT CGG GCT GCT GAG CCA GTC CAG CTG AAT TCC TGC CTG GCT GCT 1248

413  G  D  I  L  A  L  V  F  G  L  L  F  A  V  T  S  428
1249 GGT GAC ATC CTA GCC CTG CTG GTT TTT GGC CTC CTC CTT TTT GCT GTC ACC AGC 1296

429  V  A  F  L  L  V  Q  M  R  R  Q  H  R  R  G  T  K  444
1297 GTC GCG TTC CTT GTG CAG ATG AGA AGG CAG CAC AGA AGG GGA ACC AAA 1344

445  G  G  V  S  Y  R  P  A  E  V  A  E  T  G  A  *  460
1345 GGG GGT GTG AGC TAC CGC CCA GCA GAG GTA GCC GAG ACT GGA GCC TAG 1392

1393 AGG CTG GAT CTT GGA GAA TGT GAG AAG CCA GCC AGA GGC ATC TGA GGG 1440

1441 GGA GCC GGT AAC TGT CCT GTC CTG CTC ATT ATG CCA CTT CCT TTT AAC 1488

1489 TGC CAA GAA ATT TTT TAA AAT AAA TAT TTA TAA T 1522

```

FIG._1C

FIG._1A

FIG._1B

FIG._1C

FIG._1

```

1  ggatcctgtt gactcgtgac cttaccccc accctgtgct ctctgaaaca tgagctgtgt
61  ccactcaggg ttaaatggat taagggcggg gcaagatgtg ctttgttaaa cagatgcttg
121  aaggcagcat gctcgttaag agtcatcacc aatccctaata ctcaagtaat cagggacaca
181  aacactgagg aaggccgcag ggtcctctgc ctaggaaaaa cagagacctt tgttcacttg
241  ttatatctgac ctccctcca ctattgtcca tgaccctgcc aaatccccct ctgtgagaaa
301  caccacaaga ttatcaataa aaaaaataat taaaaaaaaa aatacaaaaa aaaaaaaaaa
361  aaaaaaaaaa gacttacgaa tagttattga taaatgaata gctattggta aagccaagta
421  aatgatcata ttcaaaaacca gacggccatc atcacagctc aagtctacct gatttgatct
481  ctttatcatt gtcattcttt ggattcacca gattagtcac catcctcaaa attctcccc
541  aagttctaata tacgttccaa acatttaggg gttacatgaa gcttgaacct actaccttct
601  ttgcttttga gccatgagtt gtaggaatga tgagtttaca cctacatgc tggggattaa
661  tttaaaacttt acctctaagt cagttgggta gcctttggct tatttttgta gctaattttg
721  tagttaatgg atgcactgtg aatcttgcta tgatagtttt cctccacact ttgccactag
781  gggtaggtag gtactcagtt ttcagtaatt gcttacctaa gacctaaagc cctattttctc
841  ttgtactggc ctttatctgt aatatgggca tatttaatac aataataattt ttggagtttt
901  ttgtgttgtt tgttgttgtt tttttttgag acggagtctt gcatctgtca tgcccaggct
961  ggagtagcag tggtgccatc tcggctcact gcaagctcca ctacaggcg cctcccagct tcacgcccatt
1021  ttcctgcctc agcctcccga gtagctggga ctacaggcg cgcacacat gccgggctaa
1081  ttttttgtat ttttggtaga gacggggttt caccgtgta gccagaatgg tctcgatctc
1141  ctgacttcgt gatccacccg cctcggcctc ccaaagttct gggattacag gtgtgagcca
1201  ccgcacctgg ccaattttt gagtcttta aagtaaaaat atgtcttgta agctggtaac
1261  tatggtacat ttccttttat taatgtggtg ctgacgggtca tataggttct tttagagtttg
1321  gcatgcatat gctacttttt gcagtccttt cattacattt tctctcttc atttgaagag
1381  catgttatat ctttttagctt cacttggctt aaaaggttct ctcattagcc taacacagtg
1441  tcattgttgg taccacttgg atcataagtg gaaaaacagt caagaaattg cacagtaata
1501  cttgttttga agagggatga ttcaggtgaa tctgacacta agaaactccc ctacctgagg
1561  tctgagattc ctctgacatt gctgtatata ggcttttctt ttgacagcct gtgactgcgg
1621  actatttttc ttaagcaaga tatgctaaag ttttgtgagc ctttttccag agagaggtct
1681  catatctgca tcaagtgaga acatataatg tctgcatgtt tccatatctc aggaatgttt
1741  gcttgtgttt tatgctttta tatagacagg gaaacttgtt cctcagtgac ccaaaagagg
1801  tgggaattgt tattggatat catcattggc ccacgctttc tgaccttggg aacaataag
1861  ggttcataat ctcaattctg tcagaattgg tacaagaaat agctgctatg tttcttgaca
1921  tccacttgg taggaaataa gaatgtgaaa ctcttcagtt ggtgtgtgtc cct?gtttt

```

FIG. 2A

5 / 14

1981 ttgcaatttc ctcttactg tgttaaaaa aagtatgac ttgctctgag aggtgaggca
2041 ttcttaatca tgatctttaa agatcaataa tataatcctt tcaaggatta tgtctttatt
2101 ataataaaga taatttgtct ttaacagaat caataatata atccctaaa ggattatatc
2161 tttgctgggc gcagtggctc acacctgtaa tccagcact ttgggtggcc aagtggaag
2221 gatcaaatc gctacttct atattatctt ctaagcaga attcatctct cttccctcaa
2281 tatgatgata ttgacagggt ttgacctcac tctactagatt gtgagctcct gctcagggca
2341 gtagcgctt tttgttttg tttttgtttt tctttttga gacagggtct tgctctgtca
2401 ccagggccag agtgcaatgg tacagtctca gctcactgca gcctcaaccg cctcggctca
2461 aaccatcatc ccatttcagc ctctgagta gctgggacta caggcacatg ccattacacc
2521 tggctaattt ttttgtattt ctagttaga cagggtttgg ccatgttgcc cgggctggtc
2581 tcgaactcct ggactcaagc aatccacca cctcagcctc ccaaatgag ggaccgtgtc
2641 ttattcatc ccatgtccct agtccatagc ccagtgtgg acctatgga gtactaaata
2701 aatatctgtt gaatgcaata gtaaatagca tttcaggag caagaactag attaacaaag
2761 gtggtaaaag gtttgagaa aaaaataata gtttaattg gctagagtat gagggagagt
2821 agtaggagac aagatggaaa ggtctcttg gcaaggtttt gaaggaagt ggaagtcaga
2881 agtacacaat gtgcataatc tggcaggcag tggggagcca atgaaggctt ttgagcagga
2941 gagtaatgtg ttgaaaaata aatataggtt aaacctatca gagccctct gacacataca
3001 ctgtctttc attcaagctc aagtttgtct ccacatacc cattacttaa ctcacctcg
3061 ggctcccta gcagcctgcc ctacctttt acctgcttcc tgggtgagtc agggatgtat
3121 acatgagctg ctttccctc cagccagagg acatggggg cccagctcc cctgccttc
3181 cccttctgtg cctggagctg ggaagcaggc cagggttagc tgaggctggc tggcaagcag
3241 ctgggtggtg ccagggagag cctgcatagt gccagggtgtt gccttgggtt ccaagctagt
3301 ccattggccc gataaccttc tgcctgtgca cacacctgcc cctcactcca ccccatcct
3361 agctttggtg tgggggagag ggcacagggc cagacaaaac tgtgagactt tggctccatc
3421 tctgcaaaag ggcgctctgt gagtacgctt gctccctcc aggttgctc ctccccacc
3481 cagctctcgt ttccaatgca cgtacagccc gtacacaccg tgtgctggga caccacacag
3541 TCAGCCGCAT GGTCCCTG GGTCCCTG TGCCCCAGCC CCTGGCTCCC TCTGTGTGATC CCGGCCCTG
3601 CTCCAGGCCT CACTGTGCAA CTGCTGCTGT CACTGCTGCT TCTGGTGCCT GTCCATCCCC
3661 AGAGGTTGCC CCGATGTCAG GAGGATTCCT CCTTGGGAGG AGGCTCTTCT GGGGAAGATG
3721 ACCCACTGGG CGAGGAGGAT CTGCCCAGTG AAGAGGATTC ACCCAGAGAG GAGGATCCAC
3781 CCGGAGAGGA GGATCTACCT GGAGAGGAGG ATCTACCTGG AGAGGAGGAT CTACCTGAAG
3841 TTAAGCCTAA ATCAGAAAGAA GAGGGCTCCC TGAAGTTAGA GGATCTACCT ACTGTTGAGG
3901 CTCCTGGAGA TCCTCAAGAA CCCCAGAATA ATGCCCACAG GGACAAAGAA Ggtaagtgg

FIG.-2B

6 / 14

3961 catcaatctc caaatccagg ttccaggagg ttcatgactc cctcccata cccagccta
4021 ggctctgttc actcagggaa ggaggggaga ctgtactccc cacagaagcc ctccagagg
4081 tcccatacca atatcccat cccactctc ggaggtagaa agggacagat gtggagagaa
4141 aataaaaaag gtgcaaaaag agagaggtga cccactctc ggaggtagaa agggagaggc
4201 tggagaagag aaagggatga gaactgcaga gaactgcaga tgagagaaa aatgtgcaga cagaggaaaa
4261 aaataggttg agaaggagag tcagagagtt tcagagagtt gaaggggaag agtcatctca tcttaggcta
4321 gtgaagtggg taccagagac aagcaagaag agctggtaga acacagcagg tagagaaaagc tggcttcttg
4381 caatgaggaa ttgagaccta ggaagaaggg ggaagaaggg acacagcagg tagagaaaagc tggcttcttg
4441 actcccaagc caggaatttg gggaaaaggg gggaaaaggg ttggagacca tacaaggcag agggatgagt
4501 ggggagaaga aagaagggag aaaggaaaaga aaaggaaaaga ttggtgtactc actcatttgg gactcaggac
4561 tgaagtggc actcactttt tttttttttt cgatctcggc ctagccaagt agctgcgatt acaggcatgc gccaccacgc
4621 caggctggag tgcaatggcg gcctcagcct ctagccaagt agctgcgatt agctgcgatt catgttggtc aggtggtct
4681 tgattctcct tttgtatttt tagtagagac atccaaaccac cctggcctcc caaagtgtctg ggattatagg
4741 cgggctaatt atctcaggtg ctgaagcagc cctgaagcag cactcacttt tacagaccct aagacaatga
4801 cgaactcctg agcgctggc tgtttggccc tgtttggccc accagctgc ggtgttggat ttgggtgcgg
4861 cgtgagccac agcgctggc tgtttggccc tgtttggccc accagctgc ggtgttggat ttgggtgcgg
4921 ttgcaagctg gtaggattgc tgtttggccc tgtttggccc accagctgc ggtgttggat ttgggtgcgg
4981 tctcctgtgc tttgcacctg gcccgcctaa ggccttctgtt accgtaatg ctctgttaag
5041 gcatctgcgt ttgtgacatc gttttggctg ccaggaaggg attggggctc taagcttgag
5101 cggttcatcc ttttcattta tacaggggat gaccagagtc attggcgctc TGGAGgtgag
5161 acacccacc gctgcacaga cccaatctgg gaaccagct ctgtggatct cccctacagc
5221 cgtccctgaa cactgggtccc gggcggtccc ccgcccagc accgtcccac cccctcacct
5281 tttctaccg ggttccctaa gttcctgacc taggcgtcag acttctctac tatactctcc
5341 caccaccagc GACCCGCCCT GGCCTCCGGT GTCCCCAGCC TGCGCGGCC GCTTCCAGTC
5401 CCGGTGGAT ATCCGCCCCC AGCTCGCCG CTTCCTGCCG GCCCTGCCC CCTGGAAT
5461 CCTGGCTTC CAGTCCCGC CGTCCACAG ACTGCGCTG CGCAACAATG GCCACAGTGg
5521 tgagggggtc tcccgcgga gacttgggga tggggcgggg cgagggaaag ggaaccgtcg
5581 cgagtgctt gcccggggt tgggctggcc ctaccgggctc gggcgggctc acttgctct
5641 ccctacgcag TGCAACTGAC CCTGCTCCTT GGGCTAGAGA TGGCTCTGGG TCCCGGGCGG
5701 GAGTACCGG CTCTGCAGCT GCATCTGCAC TGGGGGGCTG CAGTCTGTC GGGCTCGGAG
5761 CACACTGTG AAGCCACCG TTTCCCTGCC GAGtgagcg cgactggcc gagaagggg
5821 aaaggagcgg ggcggacggg ggcagagac gtggcctct cctaccctcg tgtcctttc
5881 agATCCACGT GGTTCACCTC AGCACCGCCT TTGCCAGAGT TGACGAGGCC TTGGGGCGCC

FIG.-2C

5941 CGGGAGGCCT GCGCGTGTG GCGCGCTTTC TGGAGgtacc agatcctgga cacccttac
 6001 tccccgctt ccatcccat gctcctccc gactctatcg tggagccaga gaccctatcc
 6061 cagcaagctc actcaggccc ctggctgaca aactcatca cgcactgttt gttcatttaa
 6121 caccactgt gaaccaggca ccagccccc ccagggaggg acaaggattc tgaagctgta ggtccttgcc
 6181 tctaaggagc ccacagccag tgggtgagac taaagcctt tgacatgaca gacacatagg aaggacatag
 6241 taaagatggt ggtcacagag gaggtgacac taaagcctt cactggtaga aaagaaaagg
 6301 aggtgttcat tgcagaggaa acagaatgtg caaagactca gaatatggcc tatttaggga
 6361 atggctacat acaccatgat ctactcact tttatttatt cagtaaaagg gaaggatgg tgagatgcct
 6421 gtaggttca ctactcact tttatttatt tttatttatt tttgacagtc tctctgtcgc
 6481 ccaggctgga gtgcagtgggt gtgatcttgg gtcaactgcaa ctccgcctc ccgggttcaa
 6541 gggattctcc tgcctcagct tcctgagtag ctggggttac agtgtgtgc caccatgccc
 6601 agctaatttt tttttgtatt ttttagtagac aggttttcac catgttggtc aggtggtct
 6661 caaactcctg gcctcaagtg atccgcctga ctcagcctac caaagtgtg attacaaagt
 6721 tgagccaccg tgcccagcca cactcactga tctcttaatg ccagccacac agcacaaagt
 6781 tcagagaaat gcctccatca tagcatgtca atatgttcat actcttaggt tcatgatgtt
 6841 cttaacatta ggttcataag caaataaga aaaaagaata ataaataaaa gaagtggcat
 6901 gtcaggacct cactgaaaa gccaaacaca gaatcatgaa ggtgaatgca gaggtagcac
 6961 caacacaaag gtgtatatat ggtttcctgt ggggagtatg tacggaggca gcagtgagt
 7021 agactgcaaa cgtcagaagg gcacgggtca ctgagagcct agtatcctag taaagtggc
 7081 tctctccctc tctctccagc ttgtcattga aaaccagtcc accaagcttg ttggttcgca
 7141 cagcaagagt acatagagtt tgaataata cataggattt taagaggagg acactgtctc
 7201 taaaaaaaaa aacaacagca acaacaaaaa gcaacaacca ttacaatttt atgttccctc
 7261 agcattctca gagctgagga atgggagagg actatgggaa ccccttcat gtccggcct
 7321 tcagccatgg ccctggatc atgcactcat ctgtcttaca atgtcattcc ccagGAGGG
 7381 CCGGAAGAA AACAGTGCCT ATGAGCAGTT GCTGTCTCGC TTGGAAGAAA TCGTGAGGA
 7441 AGgtcagttt gttggtctgg ccactaatct ctgtggccta gtcataaag aatcacctt
 7501 tggagcttca ggtctgaggc tggagatggg ctccctccag tgcaggaggg attgaagcat
 7561 gagccagcgc tcatcttgat aataaccatg aagctgacag acacagttac ccgcaaacgg
 7621 ctgcttacag attgaaaacc aagcaaaaac cgccgggcac ggtggctcac gcctgtaac
 7681 ccagcacttt gggaggccaa ggcaggtgga tcacgaggtc aagagatcaa gaccatcctg
 7741 gccaacatgg tgaaccccca tctctactaa aaatacga aaatagccag gcgtggtggc
 7801 ggtgctctgt aatccagct actcgggagg ctgaggcagg agaattggcat gaacccggga
 7861 ggcagaagt gcatgagcc cactgcactc cactgcactc cagcctgggc aacagagcga

FIG._2D

8 / 14

7921 gactcttgct tcaaaaaaa aaaaaaaa gaaaccaag caaaaaccaa aatgagacaa
7981 aaaaaacaag accaaaaaat ggtgtttgga aattgtcaag gtcaagtctg gagagctaaa
8041 ctttttctga gaactgttta tctttaataa gcatcaataa ttttaacttt gtaaatactt
8101 ttgttggaat tcgttctctt cttagctagg tagaactctg ccttgcat tcttggtctt
8161 ctgaccttt taggtttctg ttcatattta tttaacaagt ttccagatca ttttttctt
8221 gttttgtata tttttttttt tttttttttt ctgacctgt gatccaccag gacaggggtt caccatatg
8281 tctttttttt tctcaaaact ttttctttt aattgtctt gggcttaaac ttgtggccca gcactttatg
8341 gccaggctgc ttttctttt tttagctct ctgacctgt gggcttaaac ttgtggccca gcactttatg
8401 gggattcatt tttagctct ctgacctgt gggcttaaac ttgtggccca gcactttatg
8461 atggtacaca gagttaagag ccttctctc tttagactca gacggtcttt ttgtggccca gcactttatg
8521 cctcccttcc ctccacctt caagccctg aagtggctc agagttgagt taccttggct tctgggaggt
8581 caggcctctt ctagtgctc ctagtgctc aagtggctc agagttgagt taccttggct tctgggaggt
8641 agggcctgca cttagtgaag ccctataccc tgaagcttta agggggtgca atgtagatga gacccaaca
8701 gaaactgtat ccctataccc tcaagGCTC AGAGACTCAG GTCCAGGAC TGGACATATC TGCATCTCTG
8761 tagatcctct TCAGCCGCTA CTTCCTAATAT GAGGGGTCTC ACAGTGATGC TGAGTGCTAA GCAGtgggc
8821 CCTCTGACT TCTGGACTGT GTTTAACAG GTTTAACAG ACAGTGATGC TGAGTGCTAA GCAGtgggc
8881 CAGGCTGCTA TCTGGACTGT GTTTAACAG GTTTAACAG ACAGTGATGC TGAGTGCTAA GCAGtgggc
8941 ctggggtgtg tgtggacaca gtgggtgctg gggaaagagg ggtataatg atgtaagatg agatgagaaa
9001 caggagaaga aagaaatcaa ggctgggctc tgtggcttac ccctataatc ccaccagtt
9061 gggaggctga ggtggagaa tgggttgagc ccaggagttc caacaaaacc ggaagatcgc ttgattccag
9121 agtgtgacct catcttacc aaaaaaacc tactcaagga ggctgaggtg accatcttta ggatacat
9181 gtagcgcc tagtccagc ctatgatccc accactgct atggggaata caggagctgg aggtggagc
9241 gagtttgaga ctgcagtga aagaggctgg acccttgtt acccttgtt TGACACCTTG TGGGACCTG
9301 attatttat aaagaaatc tgggtgtgag ctggcctggg ACACCTCTC CGACGAGCC TTTGAATGGG CGAGTGATTG
9361 cctgaggctg ccactgacct ccctagCTCC ACACCTCTC CGACGAGCC TTTGAATGGG CGAGTGATTG
9421 ccacactgt GCTACAGCTG AACTTCCGAG GTGGACAGCA GTCTCTGGGC TGTGAGCCA Ggtacagctt
9481 GTGACTCTCG CCTGCTGGA GTGGACAGCA GTCTCTGGGC TGTGAGCCA Ggtacagctt
9541 AGGCTCTCTT ccccccagcc agtagtccct tatcctccca tgtgtgtgct agtgtctgtc
9601 tgtctggtt ccccccagcc agtagtccct tatcctccca tgtgtgtgct agtgtctgtc
9661 attggtggtc acagcccgcc tctcacatct cctttttctc tccagTCCAG CTGAATTCTT
9721 GCTGGCTGC TGgtgagtct gcccctctc ttggtcctga tggcaggaga ctccctcagca
9781 ccattcagcc ccagggtgc tcaggaccgc ctctgctccc tctcccttcc tgcagaacag
9841 acccaacc caatataga gaggcagatc atggtgggga ttcccccat gtccccagag

FIG.-2E


```

9901 gctaattgat tagaatgaag cttgagaaat ctcccagcat ccctctcgca aaagaatccc
9961 cccccctttt tttaaagata ggtctctcact ctgtttgccc caggctgggg tgtgtgggca
10021 cgatcatagc tctactgcagc ctggaactcc taggctcagg caatcctttc accttagctt
10081 ctcaaagcac tgggactgta ggcactgagc actgtgcctg gcccacaaag gcccttttac
10141 ttggctttta ggaagcaaaa acggtgctta tcttaccctt tctcgtgtat ccaccctcat
10201 cccttggctg gcctcttctg gagactgagg cactatgggg ctgcctgaga actcgggggca
10261 ggggtggctg agtgcaactga ggcagggtgtt gaggaactct gcagaccctt ctcccttccc
10321 aaagcagccc tctctgtctt ccatcgcagg TGACATCCTA GCCCTGGTTT TTGGCCTCCT
10381 TTTTGTCTGTC ACCAGCGTCG CGTTCCTTGT GCAGATGAGA AGCAGCACCA Ggtattacac
10441 tgaccctttc ttcagggcaca agcttcccc acccttgtgg agtcacttca tgcaaaagcg
10501 atgcaaatga gctgctcctg ggccagtctt ctgattagcc ttccctgttg tgtacacaca
10561 GAAGGGGAAC CAAAGGGGT GTGAGCTACC GCCCAGCAGA GGTAGCCGAG ACTGGAGCCT
10621 AGAGGCTGGA TCTTGGAGAA TGTGAGAAGC CAGCCAGAGG CATCTGAGGG GGAGCCGGTA
10681 ACTGTCCCTGT CCTGCTCATT ATGCCACTTC CTTTAACTG CCAAGAAATT TTTTAAATA
10741 AATAATTATA ATaaaaatg tgtagtcac ctttgttccc caaatcagaa ggaggtattt
10801 gaatttccta ttactgttat tagcaccaat ttagtggtaa tgcatttatt ctattacagt
10861 tcggcctcct tccacacatc actccaatgt gttgctcc

```

FIG._2F

FIG._2A

FIG._2B

FIG._2C

FIG._2D

FIG._2E

FIG._2F

FIG._2

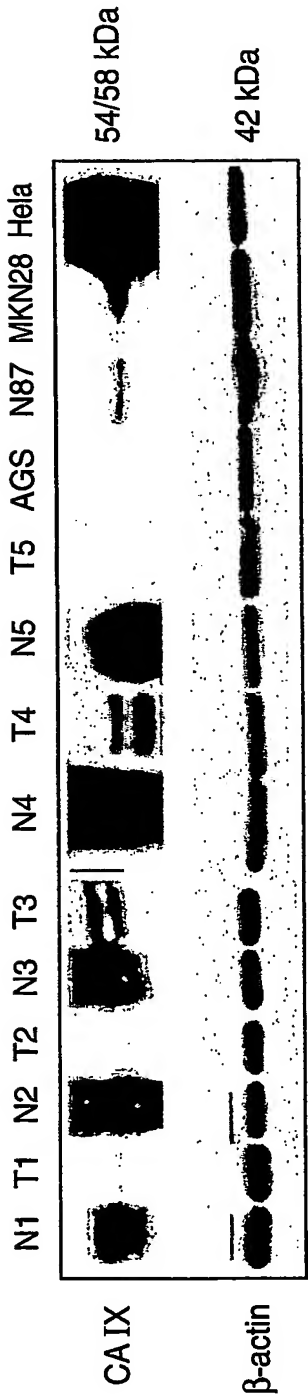


FIG._4A

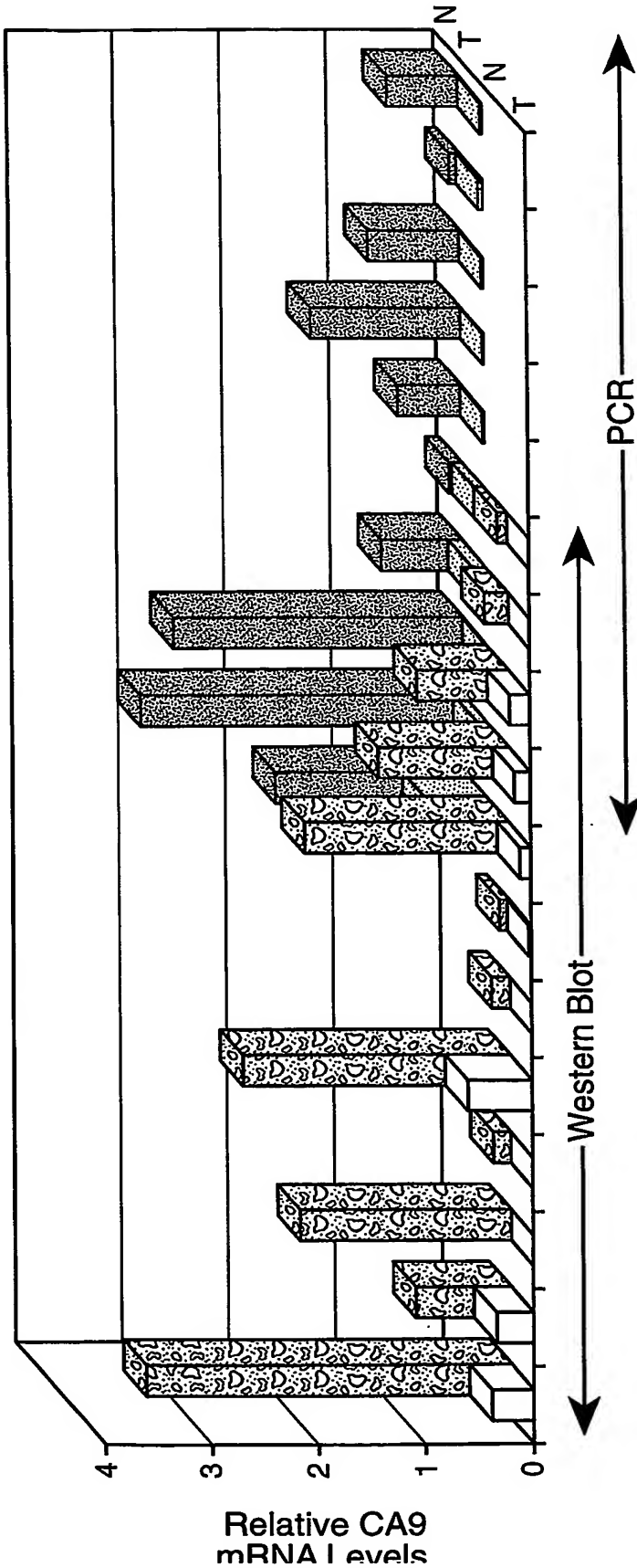
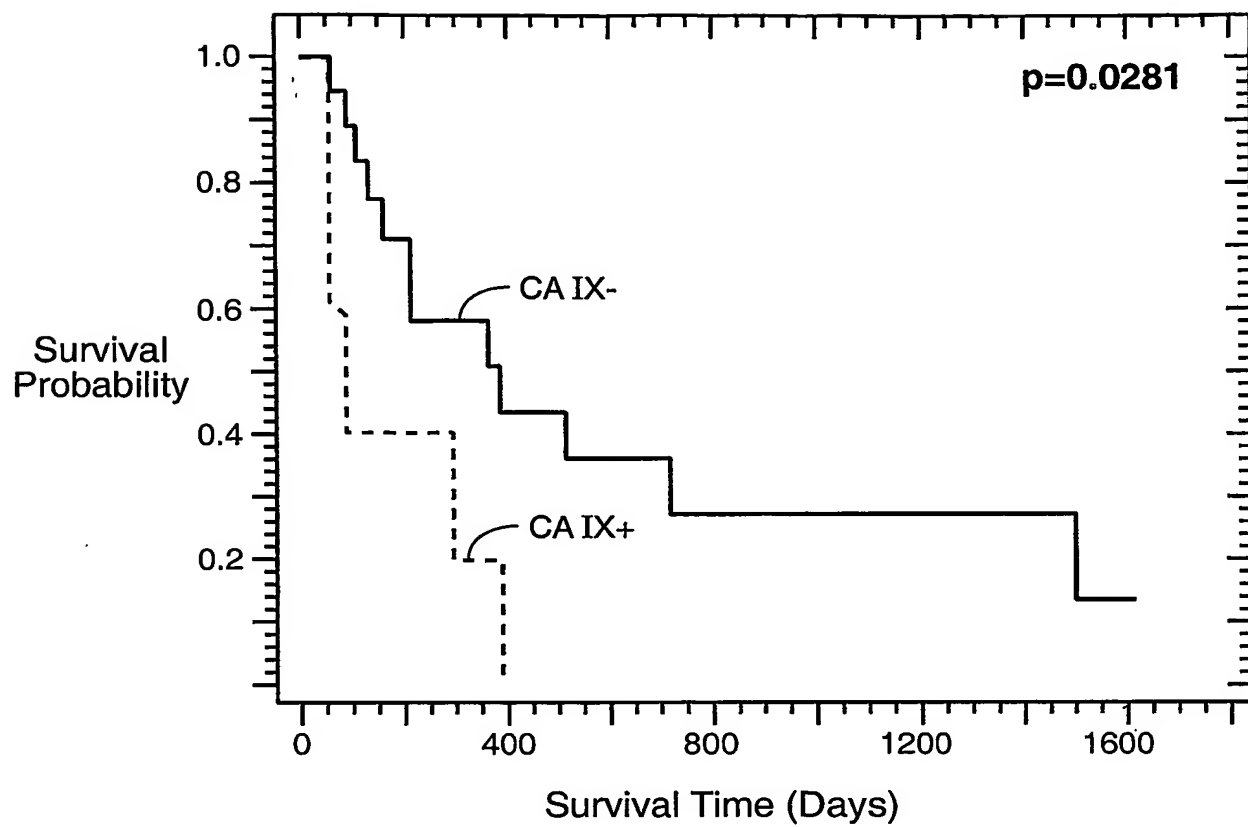
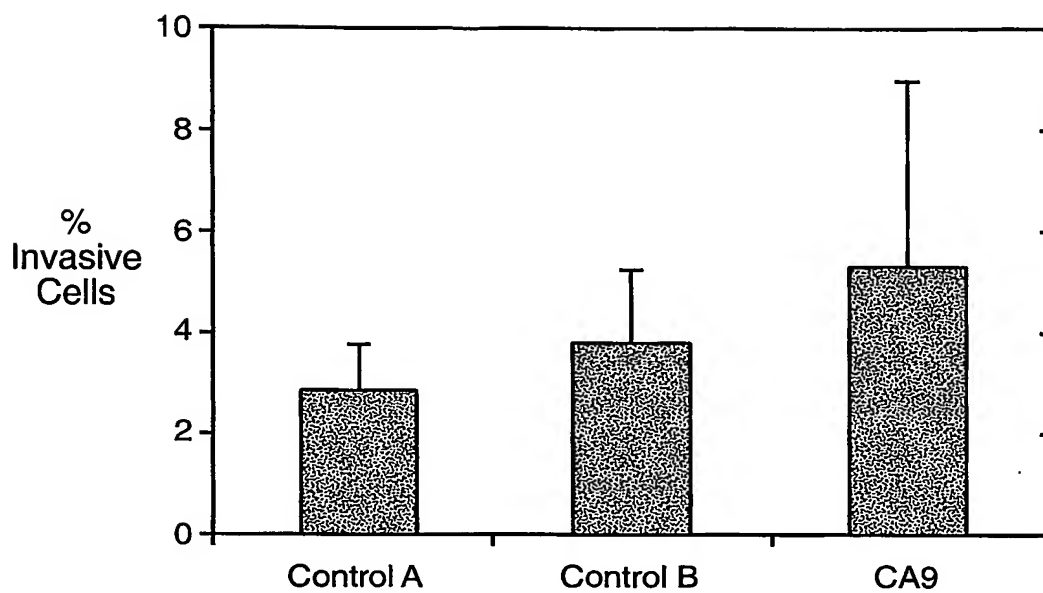
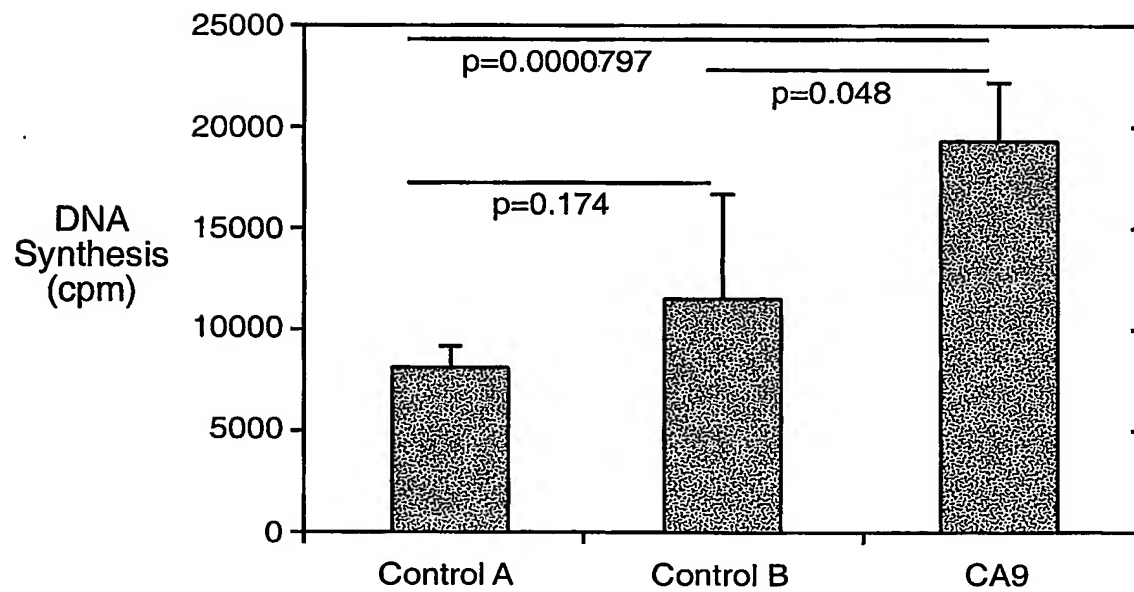


FIG._4B

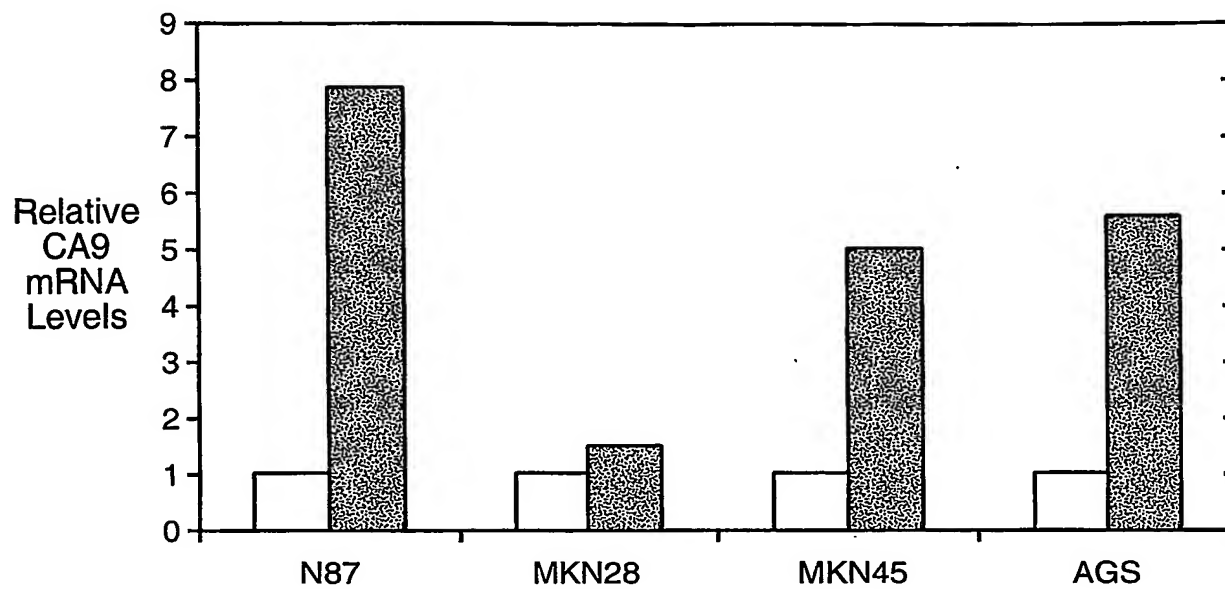
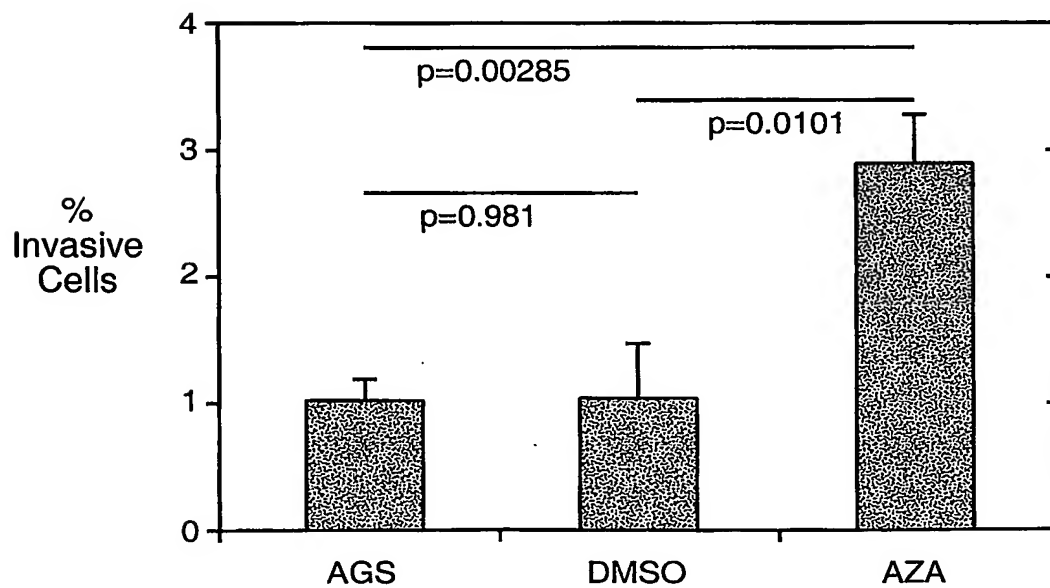
12 / 14

**FIG._5**

13 / 14

**FIG. 6A****FIG. 6B**

14 / 14

**FIG. 7A****FIG. 7B**